PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference PCT-2-160701 | FOR FURTHER AC | CTION | See Form PCT/IPEA/416 | | |
|--|-------------------------------|--------------------------|---|--|--|
| International application No. | International CIV 1 | | In: : I de de | | |
| | International filing date | | Priority date (day/month/year) | | |
| PCT/JP2004/009794 | 02.07.2004 | | 25.07.2003 | | |
| International Patent Classification (IPC) or F28F1/02 | national classification and I | PC | | | |
| Applicant T. RAD CO., LTD. | | | | | |
| | | | | | |
| This report is the international punder Article 35 and transmitted to | | | International Preliminary Examining Authority | | |
| 2. This REPORT consists of a total of | of 4 | sheets, includir | ng this cover sheet. | | |
| This report is also accompanied b | y ANNEXES, comprising: | | | | |
| (sent to the applicant | and to the International Pro- | ongu) a tatal af | sheets, as follows: | | |
| | | | amended and are the basis for this report and/or | | |
| | | | ule 70.16 and Section 607 of the Administrative | | |
| sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental | | | | | |
| Box. | | | | | |
| b (sent to the Internation | nal Bureau only) a total of (| indicate type and numb | er of electronic carrier(s)) | | |
| | | | , containing a sequence listing and/or tables | | |
| related thereto, in comp Section 802 of the Adm | | indicated in the Suppl | emental Box Relating to Sequence Listing (see | | |
| 4. This report contains indications re | elating to the following item | s: | | | |
| Box No. I Basis of | f the report | | | | |
| Box No. II Priority | | | | | |
| Box No. III Non-est | ablishment of opinion with | regard to novelty, inver | ntive step and industrial applicability | | |
| Box No. IV Lack of | unity of invention | | | | |
| Box No. V Reason | • | | elty, inventive step or industrial applicability; | | |
| | documents cited | | | | |
| Box No. VII Certain | defects in the international | application | | | |
| Box No. VIII Certain | observations on the internat | ional application | | | |
| Date of submission of the demand | | Date of completion of t | his report | | |
| | | v. vonpenon on t | | | |
| Name and mailing address of the IPEA/JP | | Authorized officer | | | |
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| Facsimile No. | | Talanhana No | | | |

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/009794

| Box | No. I | Basis of the report | |
|-----|--|--|---|
| 1. | | d to the language, this report is based on the international ander this item. | pplication in the language in which it was filed, unless otherwise |
| | This r | report is based on translations from the original language in h is the language of a translation furnished for the purposes | to the following language, of: |
| | | international search (Rule 12.3 and 23.1(b)) | |
| | 닏 | publication of the international application (Rule 12.4) | |
| | | international preliminary examination (Rule 55.2 and/or 55 | |
| 2. | With regard receiving C this report) | Office in response to an invitation under Article 14 are ref | nt is based on (replacement sheets which have been furnished to the ferred to in this report as "originally filed" and are not annexed to |
| | the in | nternational application as originally filed/furnished | |
| | the d | lescription: | |
| | page | · s | as originally filed/furnished |
| | page | s* re | ceived by this Authority on |
| | page | es* re | ceived by this Authority on |
| | the c | claims: | |
| | nos. | | as originally filed/furnished |
| | nos.* | * | as amended (together with any statement) under Article 19 |
| | nos. | | ceived by this Authority on |
| 1 | nos. | | eceived by this Authority on |
| | T the | drawings: | |
| | shee | • | as originally filed/furnished |
| | | | eccived by this Authority on |
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| ļ | shee | | • |
| ļ | ∐ a sec | quence listing and/or any related table(s) - see Supplement | al Box Relating to Sequence Listing. |
| 3. | The | e amendments have resulted in the cancellation of: | |
| | ᆜ | the description, pages | |
| | | the claims, nos. | |
| | | the drawings, sheets/figs | |
| Ì | | the sequence listing (specify): | |
| | | any table(s) related to sequence listing (specify): | |
| 4. | Thi the | is report has been established as if (some of) the amendment by have been considered to go beyond the disclosure as filed | ents annexed to this report and listed below had not been made, sinc I, as indicated in the Supplemental Box (Rule 70.2(c)). |
| | | the description, pages | |
| | | the claims, nos. | |
| 1 | | the drawings, sheets/figs | |
| | | the sequence listing (specify): | |
| | | 1 | |
| | If item 4 | applies, some or all of those sheets may be marked "supers | seded." |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009794

| Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | • | | |
|---|-------------------------------|---|-----|-------|
| 1. | Statement | | | |
| | Novelty (N) | Claims | 1-2 | YES |
| | | Claims | | NO |
| | Inventive step (IS) | Claims | | YES |
| | | Claims | 1-2 | NO |
| | Industrial applicability (IA) | Claims | 1-2 | YES |
| | | Claims | | NO NO |
| | | | | |

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 2002-71286 A (Toyo Radiator Co., Ltd.),
 08 March 2002, page 4, left column, lines
 22 to 38 (Family: none)
 - Document 2: JP 2002-228369 A (Toyo Radiator Co., Ltd.),
 14 August 2002, page 5, left column, lines
 27 to 39, fig. 8-9

The invention set forth in claims 1 and 2 does not involve an inventive step in the light of document 1 or 2, because it merely applies numerical limitations to the inventions disclosed in documents 1 and 2. These numerical limitations represent limitations that a person skilled in the art would easily derive as appropriate.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009794

| | ertain published documents (Rule 70.10) | | | |
|---|---|---|------------------------------|--|
| | Application No. Patent No. | Publication date (day/month/year) | Filing date (day/month/year) | Priority date (valid clain (day/month/year) |
| | JP 2004-053128 A | 19.02.2004 | 19.07.2002 | |
| | [E,X] | | | |
| | (Oka Kogyo | | | |
| | Kabushiki Kaisha) | | | |
| | page 3, line 36 to | | | |
| | page 4, line 27 | | | |
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| N | Jon-written disclosures (Rule 70.9) | | | |
| | vinen disclosures (reas 75.5) | | : | Date of written disclosure |
| | Kind of non-written disclosure | Date of non-written d (day/month/yea | lisclosure refer | ring to non-written disclosure (day/month/year) |
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